

ESCALANTE RIVER BASIN

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09338900 DEER CREEK NEAR BOULDER, UT

LOCATION.--Lat 37°51'12", long 111°21'16", in NW¹/₄SE¹/₄NE¹/₄ sec. 16, T. 34 S., R. 5 E., Garfield County, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 150 ft downstream from Burr Trail crossing and 6.3 mi east of Boulder.

DRAINAGE AREA.--62.7 mi².

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1959-74. September 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. July 8, 1959 to September 30, 1974, crest-stage gage at site 160 ft downstream on left bank at datum 8.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, Aug 3, 1961, gage height, 14.00 ft, from rating curve extended above about 5 ft³/s on basis of slope-area measurements at gage heights 11.50 ft, 12.50 ft, and 14.00 ft (datum then in use); minimum daily, some flow in most years but dry on occasions.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s, May 15, gage height, 7.35 ft; minimum daily discharge, 3.1 ft³/s, July 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	8.3	8.5	11	7.4	7.4	7.7	6.5	4.6	3.4	13	4.8
2	23	8.2	7.6	11	7.4	7.6	6.9	6.4	4.4	3.5	7.1	5.0
3	15	7.2	10	11	7.0	7.4	6.9	6.5	4.4	3.6	4.9	5.1
4	7.4	7.5	10	11	6.8	7.4	6.8	6.5	4.3	3.5	4.5	4.7
5	7.2	7.5	10	11	6.9	7.1	7.0	6.2	4.3	3.5	4.1	5.4
6	7.0	7.3	10	11	7.2	7.2	6.9	6.2	4.2	3.4	3.9	6.5
7	6.6	7.1	11	10	7.3	7.2	6.8	6.3	4.1	3.3	4.2	6.5
8	6.2	7.0	11	10	7.2	7.1	6.6	6.3	4.2	3.4	4.6	5.5
9	6.1	8.2	10	10	7.3	7.0	6.9	6.6	4.2	3.3	6.6	5.2
10	6.0	7.6	10	11	7.6	7.1	7.3	6.8	4.3	3.2	4.5	5.0
11	6.1	7.3	10	11	7.6	7.3	6.8	6.4	4.2	3.2	4.2	5.0
12	8.5	6.8	10	11	7.8	7.4	6.7	6.1	4.3	3.2	4.3	4.8
13	7.9	7.0	10	10	9.1	7.6	6.7	5.9	e4.2	3.1	4.3	4.7
14	7.4	6.9	11	10	8.1	9.1	6.7	5.9	4.2	3.2	4.5	4.7
15	6.2	6.9	11	11	7.5	9.7	6.9	176	4.1	3.3	5.0	4.5
16	6.2	6.9	10	10	7.4	29	6.8	11	4.0	3.3	5.1	4.4
17	6.3	6.9	11	10	7.4	12	6.8	6.9	4.0	3.4	5.0	4.3
18	6.5	6.8	10	10	7.5	9.2	6.8	6.4	4.3	3.2	4.7	4.4
19	6.6	6.9	9.3	10	7.1	8.3	6.8	6.0	4.3	3.3	4.5	4.6
20	6.7	7.0	9.6	10	7.2	8.0	6.7	5.7	4.1	3.5	4.7	4.5
21	6.7	7.1	9.8	10	7.0	7.9	6.8	5.5	4.0	3.4	4.7	4.5
22	18	7.2	9.9	10	7.1	7.9	7.4	5.4	3.9	3.6	4.8	4.5
23	e7.0	7.1	9.3	10	7.2	9.0	7.0	5.3	3.8	3.9	5.2	4.5
24	e7.0	7.1	9.7	10	7.0	12	6.7	5.3	3.8	3.7	5.5	4.4
25	e7.0	7.0	10	10	7.9	7.1	6.6	5.2	3.9	3.5	5.1	4.4
26	e7.5	6.8	9.8	9.9	10	7.1	6.5	5.1	3.9	3.6	4.9	4.3
27	e25	7.0	9.6	10	7.7	8.3	6.4	4.9	3.8	4.0	5.0	4.4
28	e18	7.2	10	9.4	7.6	7.1	6.4	4.8	3.8	5.0	4.8	4.6
29	18	7.4	11	9.1	---	7.1	6.4	4.8	3.7	32	4.7	5.1
30	16	8.4	11	9.1	---	e7.5	6.4	4.8	3.5	7.4	4.9	5.0
31	14	---	11	9.0	---	7.6	---	4.6	---	4.7	4.7	---
MEAN	9.84	7.25	10.0	10.2	7.51	8.67	6.80	11.5	4.09	4.57	5.10	4.84
MAX	25	8.4	11	11	10	29	7.7	176	4.6	32	13	6.5
MIN	6.0	6.8	7.6	9.0	6.8	7.0	6.4	4.6	3.5	3.1	3.9	4.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	8.15	9.47	9.81	9.89	8.60	9.09	6.42	8.41	4.16	4.45	5.28	10.3
(WY)	(2003)	(2002)	(2003)	(2003)	(2002)	(2002)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)
MAX	9.84	11.7	10.0	10.2	9.70	9.52	6.80	11.5	4.22	4.57	5.47	15.7
(WY)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)	(2002)
MIN	6.46	7.25	9.59	9.57	7.51	8.67	6.04	5.32	4.09	4.34	5.10	4.84
(WY)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 2001 - 2003
ANNUAL MEAN	8.07	7.55	7.83
HIGHEST ANNUAL MEAN			8.11
LOWEST ANNUAL MEAN			7.55
HIGHEST DAILY MEAN	87	Sep 12	245
LOWEST DAILY MEAN	3.8	Jun 28	Sep 16, 2001
ANNUAL SEVEN-DAY MINIMUM	3.9	Jun 25	Jul 13, 2003
10 PERCENT EXCEEDS	11	10	Jul 9, 2003
50 PERCENT EXCEEDS	6.9	6.9	6.8
90 PERCENT EXCEEDS	4.2	4.0	4.1

e Estimated

ESCALANTE RIVER BASIN

09338900 DEER CREEK NEAR BOULDER, UT—Continued

